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IN THE U.S. PATENT AND TRADEMARK OFFICE
Patent Application Transmittal Letter

Mail Stop Patent Application
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

22154 US PTO
10/698501
103103

Sir:

Transmitted herewith for filing under 37 CFR 1.53(b) is a(n): Utility Design
 original patent application,
 continuation-in-part application

INVENTOR(S): Heon Lee et al

TITLE: Heating MRAM Cells To Ease State Switching

Enclosed are:

- The Declaration and Power of Attorney. signed unsigned or partially signed
 3 sheets of drawings (one set) Associate Power of Attorney
 Form PTO-1449 Information Disclosure Statement and Form PTO-1449
 Priority document(s) (Other) (fee \$ _____)

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
TOTAL CLAIMS	20 — 20	0	X \$18	\$ 0
INDEPENDENT CLAIMS	6 — 3	3	X \$86	\$ 258
ANY MULTIPLE DEPENDENT CLAIMS	0		\$290	\$ 0
BASIC FEE: Design (\$340.00); Utility (\$770.00)				\$ 770
TOTAL FILING FEE				\$ 1,028
OTHER FEES				\$
TOTAL CHARGES TO DEPOSIT ACCOUNT				\$ 1,028

Charge \$ 1,028 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

"Express Mail" label no. EV104130825US

Respectfully submitted,

Date of Deposit 10/31/03

Heon Lee et al

By Brian R. Short

Brian R. Short

Attorney/Agent for Applicant(s)
Reg. No. 41,309

Date: 10/31/03

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